

a) β -irradiation		b) γ -irradiation	
Time (h)	Conversion (%)	Time (h)	Conversion (%)
0	0	0	0
1	10	1	5
2	20	2	10
3	30	3	15
4	40	4	20
5	50	5	25
6	60	6	30
7	70	7	35
8	80	8	40
9	90	9	45
10	100	10	50
11	100	11	55
12	100	12	60
13	100	13	65
14	100	14	70
15	100	15	75
16	100	16	80
17	100	17	85
18	100	18	90
19	100	19	95
20	100	20	100
21	100	21	100
22	100	22	100
23	100	23	100
24	100	24	100
25	100	25	100
26	100	26	100
27	100	27	100
28	100	28	100
29	100	29	100
30	100	30	100
31	100	31	100
32	100	32	100
33	100	33	100
34	100	34	100
35	100	35	100
36	100	36	100
37	100	37	100
38	100	38	100
39	100	39	100
40	100	40	100
41	100	41	100
42	100	42	100
43	100	43	100
44	100	44	100
45	100	45	100
46	100	46	100
47	100	47	100
48	100	48	100
49	100	49	100
50	100	50	100
51	100	51	100
52	100	52	100
53	100	53	100
54	100	54	100
55	100	55	100
56	100	56	100
57	100	57	100
58	100	58	100
59	100	59	100
60	100	60	100
61	100	61	100
62	100	62	100
63	100	63	100
64	100	64	100
65	100	65	100
66	100	66	100
67	100	67	100
68	100	68	100
69	100	69	100
70	100	70	100
71	100	71	100
72	100	72	100
73	100	73	100
74	100	74	100
75	100	75	100
76	100	76	100
77	100	77	100
78	100	78	100
79	100	79	100
80	100	80	100
81	100	81	100
82	100	82	100
83	100	83	100
84	100	84	100
85	100	85	100
86	100	86	100
87	100	87	100
88	100	88	100
89	100	89	100
90	100	90	100
91	100	91	100
92	100	92	100
93	100	93	100
94	100	94	100
95	100	95	100
96	100	96	100
97	100	97	100
98	100	98</	

a) β -irradiation		b) γ -irradiation	
Time (h)	Conversion (%)	Time (h)	Conversion (%)
0	0	0	0
1	1.5	1	1.5
2	3.0	2	3.0
3	4.5	3	4.5
4	6.0	4	6.0
5	7.5	5	7.5
6	9.0	6	9.0
7	10.5	7	10.5
8	12.0	8	12.0
9	13.5	9	13.5
10	15.0	10	15.0
11	16.5	11	16.5
12	18.0	12	18.0
13	19.5	13	19.5
14	21.0	14	21.0
15	22.5	15	22.5
16	24.0	16	24.0
17	25.5	17	25.5
18	27.0	18	27.0
19	28.5	19	28.5
20	30.0	20	30.0
21	31.5	21	31.5
22	33.0	22	33.0
23	34.5	23	34.5
24	36.0	24	36.0
25	37.5	25	37.5
26	39.0	26	39.0
27	40.5	27	40.5
28	42.0	28	42.0
29	43.5	29	43.5
30	45.0	30	45.0
31	46.5	31	46.5
32	48.0	32	48.0
33	49.5	33	49.5
34	51.0	34	51.0
35	52.5	35	52.5
36	54.0	36	54.0
37	55.5	37	55.5
38	57.0	38	57.0
39	58.5	39	58.5
40	60.0	40	60.0
41	61.5	41	61.5
42	63.0	42	63.0
43	64.5	43	64.5
44	66.0	44	66.0
45	67.5	45	67.5
46	69.0	46	69.0
47	70.5	47	70.5
48	72.0	48	72.0
49	73.5	49	73.5
50	75.0	50	75.0
51	76.5	51	76.5
52	78.0	52	78.0
53	79.5	53	79.5
54	81.0	54	81.0
55	82.5	55	82.5
56	84.0	56	84.0
57	85.5	57	85.5
58	87.0	58	87.0
59	88.5	59	88.5
60	90.0	60	90.0
61	91.5	61	91.5
62	93.0	62	93.0
63	94.5	63	94.5
64	96.0	64	96.0
65	97.5	65	97.5
66	99.0	66	99.0
67	100.0	67	100.0
68	100.0	68	100.0
69	100.0	69	100.0
70	100.0	70	100.0
71	100.0	71	100.0
72	100.0	72	100.0
73	100.0	73	100.0
74	100.0	74	100.0
75	100.0	75	100.0
76	100.0	76	100.0
77	100.0	77	100.0
78	100.0	78	100.0
79	100.0	79	100.0
80	100.0	80	100.0
81	100.0	81	100.0
82	100.0	82	100.0
83	100.0	83	100.0
84	100.0	84	100.0
85	100.0	85	100.0
86	100.0	86	100.0
87	100.0	87	100.0
88	100.0	88	100.0
89	100.0	89	100.0
90	100.0	90	100.0
91	100.0	91	100.0
92	100.0		